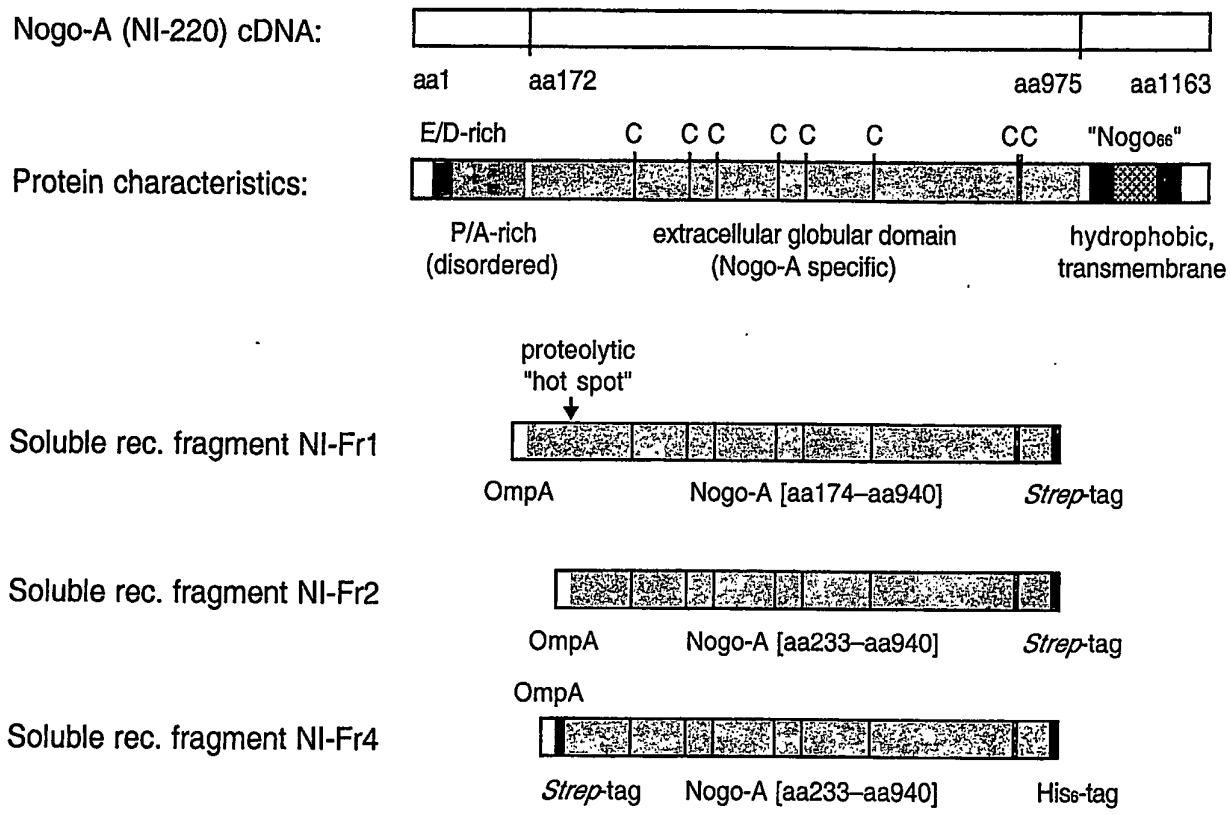

Fig. 1A

Best Available Copy

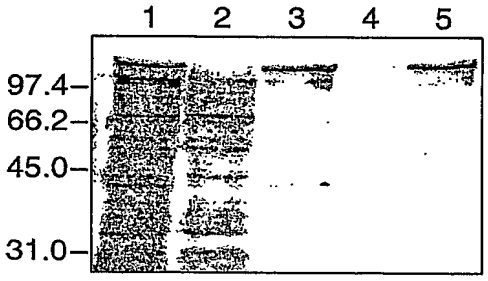

Fig. 1B

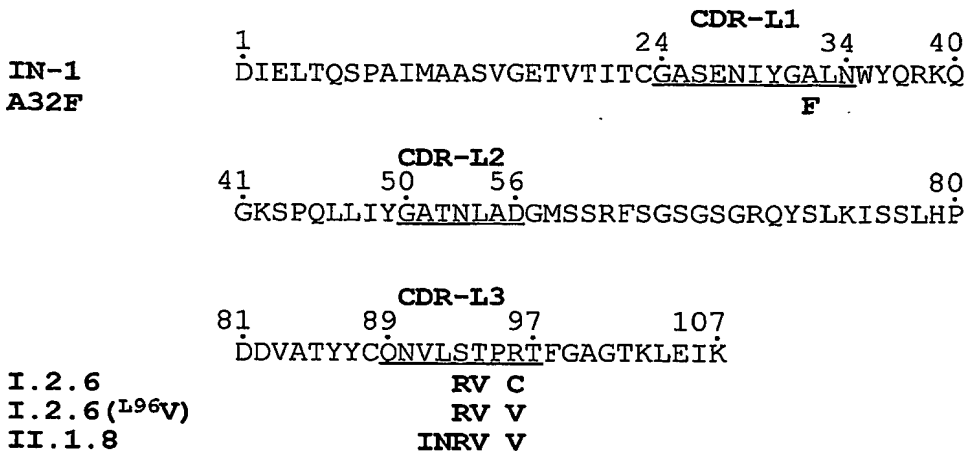
CDR-L1
1 24 34 40
IN-1 DIELTQSPAIMAASVGETVTITCGASENIYGALNWYQRKQ
A32F F
CDR-L2
41 50 56 80
GKSPQLLIYGATNLADGMSSRFSGSGSGRQYSLKISSLHP
CDR-L3
81 89 97 107
DDVATYYCQNVLSTPRTFGAGTKLEIK
I.2.6 RV C
I.2.6(L96V) RV V
II.1.8 INRV V

Fig. 2A

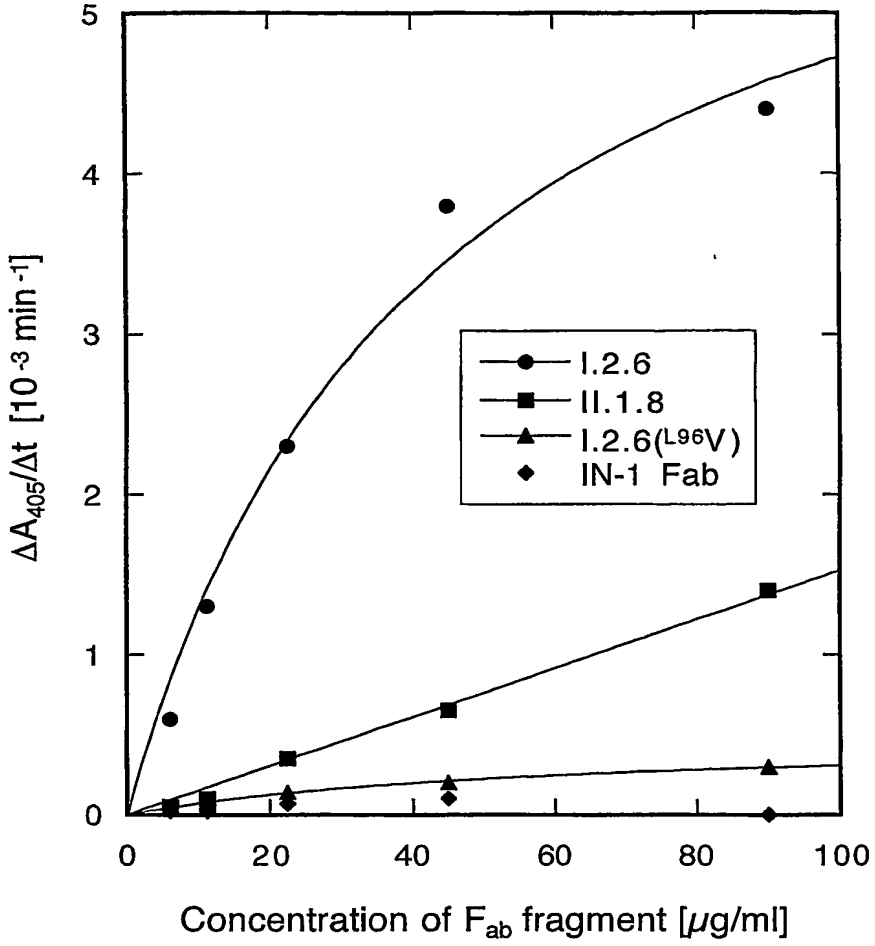
5
4
3
2
1
0
0
20
40
60
80
100
$\Delta A_{405}/\Delta t$ [10^{-3} min^{-1}]
Concentration of F_{ab} fragment [μg/ml]
I.2.6
II.1.8
I.2.6(L96V)
IN-1 Fab

Fig. 2B

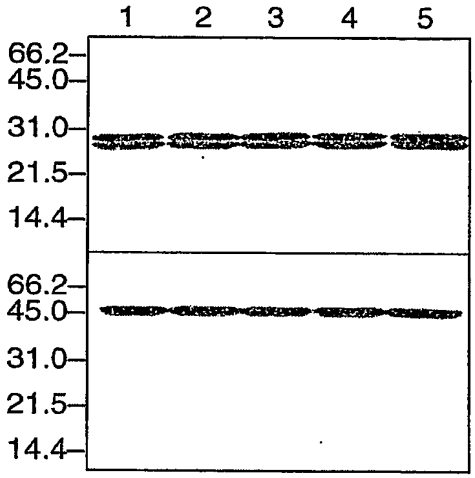

Fig. 3A

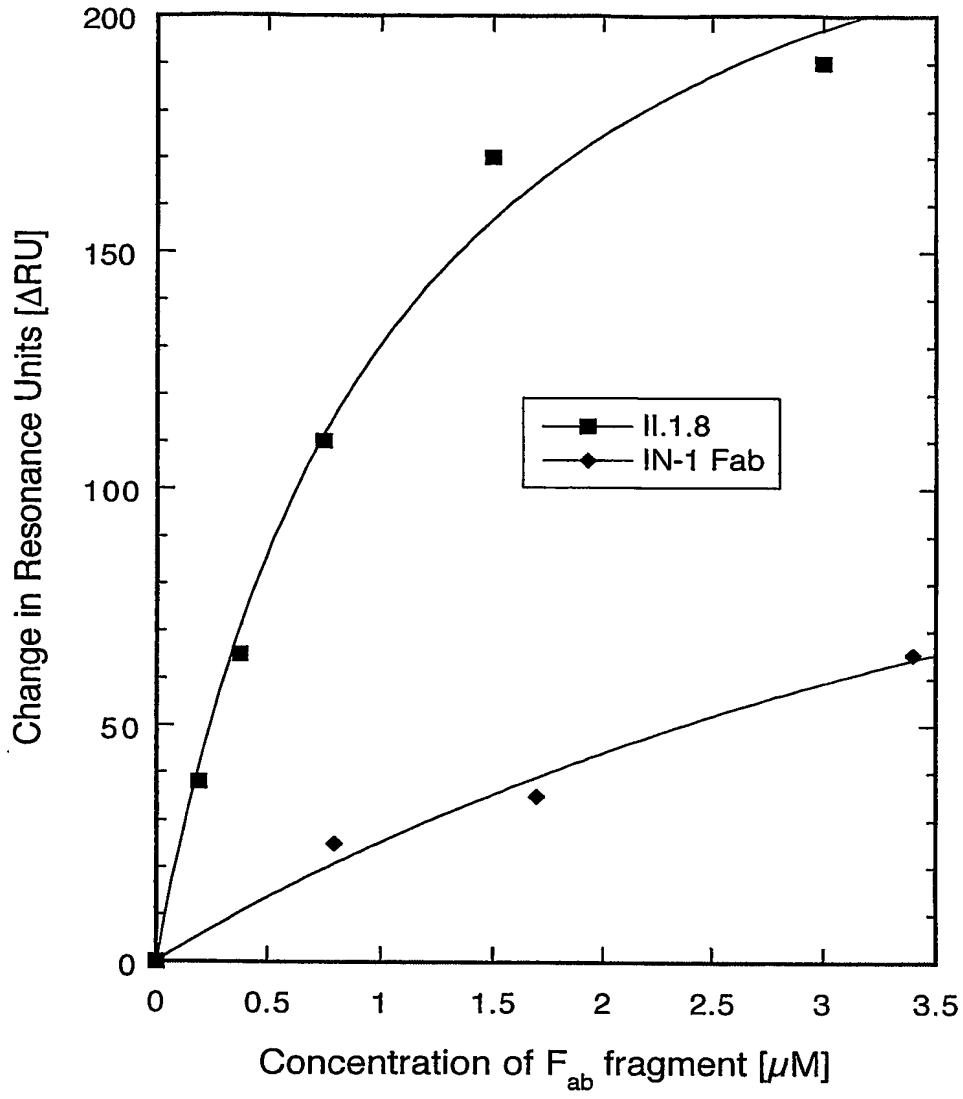
200
150
100
50
0
Change in Resonance Units [ΔRU]
0
0.5
1
1.5
2
2.5
3
3.5
Concentration of F ab fragment [μM]
II.1.8
IN-1 Fab

Fig. 3B

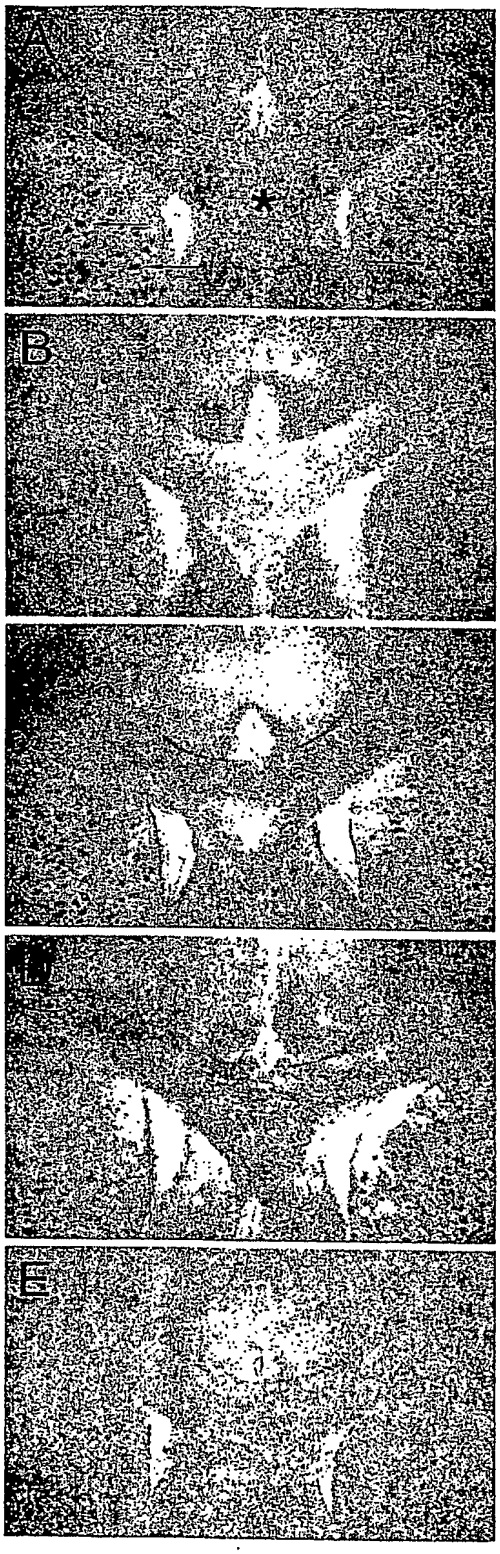

Fig. 4

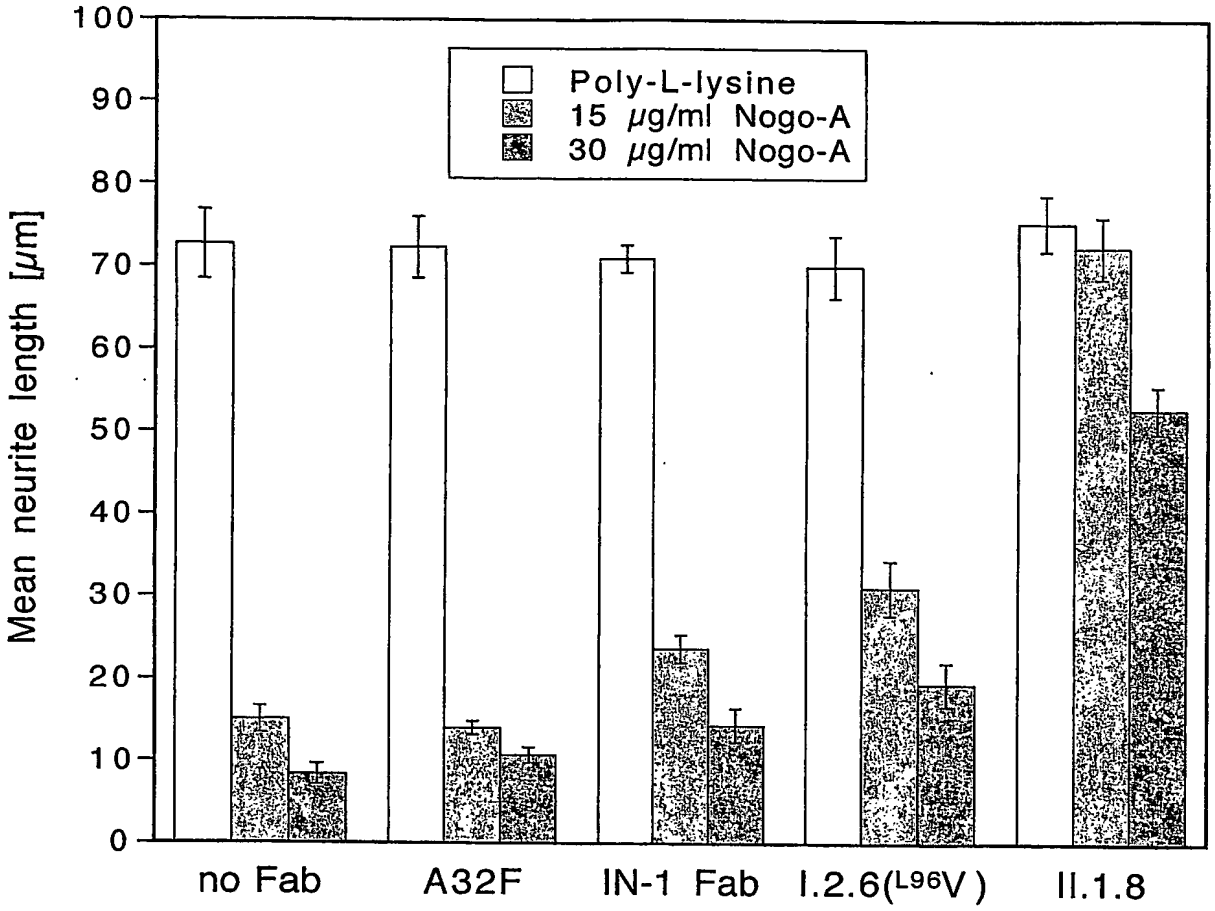
Poly-L-lysine
15 µg/ml Nogo-A
30 µg/ml Nogo-A
Mean neurite length [µm]
100
90
80
70
60
50
40
30
20
10
0
no Fab
A32F
IN-1 Fab
I.2.6(L96V)
II.1.8

Fig. 5

```
MEDIDQSSLV SSSTDSPPRP PPAFKYQFVT EPEDEEDEEE EEDEEEDDED
LEELEVLERK PAAGLSAAAV PPAAAAPLLD FSSDSVPPAP RGPLPAAPPA 100
APERQPSWER SPAAPAPSLP PAAAVLPSKL PEDDEPPARP PPPPPAGASP
LAEPAAPPST PAAPKRRGSG SVDETLFALP AASEPVIPSS AEKIMDLMEQ 200
PGNTVSSGQE DFPSVLLETA ASLPSLSPLS TVSFKEHGYL GNLSAVSSSE
GTIEETLNEA SKELPERATN PFVNRDLAEF SELEYSEMGS SFKGSPKGES 300
AILVENTKEE VIVRSKDKED LVCSAALHSP QESPVGKEDR VVSPEKTMDI
FNEMQMSVVA PVREEYADFK PFEQAWEVKD TYEGSRDVLA ARANVESKVD 400
RKCLEDSLEQ KSLGKDSEGR NEDASFPSTP EPVKDSSRAY ITCASFTSAT
ESTTANTFPL LEDHTSENKT DEKKIEERKA QIITEKTSPK TSNPFLVAVQ 500
DSEADYVTTD TLSKVTEAAV SNMPEGLTPD LVQEACESEL NEATGTKIAY
ETKVDLVQTS EAIQESLYPT AQLCPSFEEA EATPSPVLPD IVMEAPLNSL 600
LPSAGASVVQ PSVSPLEAPP PVSYDSIKLE PENPPPYEEA MNVALKALGT
KEGIKEPESF NAAVQETEAP YISIACDLIK ETKLSTEPSP DFSNYSEIAK 700
FEKSVPEHAE LVEDSSPESE PVDLFSDDSI PEVPQTQEEA VMLMKESLTE
VSETVAQHKE ERLSASPQEL GKPYLESFQP NLHSTKDAAS NDIPTLTKKE 800
KISLQMEEFN TAIYSNDDLL SSKEDKIKES ETFSDSSPIE IIDEFPTFVS
AKDDSPKLAK EYTDLEVSDK SEIANIQSGA DSLPCLELPC DLSFKNIYPK 900
DEVHVSDEFS ENRSSVSKAS ISPSNVSALE PQTEMGSIVK SKSLTKEAEK
KLPSDTEKED RSLSAVLSAE LSKTSVVDLL YWRDIKKTGV VFGASLFLLL 1000
SLTVFSIVSV TAYIALALLS VTISFRIYKG VIQAIQKSDE GHPFRAYLES
EVAISEELVQ KYSNSALGHV NSTIKELRRL FLVDDLVDSL KFAVLMWVFT 1100
YVGALFNGLT LLILALISLF SIPVIYERHQ VQIDHYLGLA NKSVKDAMAK
IQAKIPGLKR KAD                                        1163
```

Fig. 6A

```
MEDLDQSPLV SSSDSPPRPQ PAFKYQFVRE PEDEEEEEEE EEEDEDEDLE
ELEVLERKPA AGLSAAPVPT APAAGAPLMD FGNDFVPPAP RGPLPAAPPV 100
APERQPSWDP SPVSSTVPAP SPLSAAAVSP SKLPEDDEPP ARPPPPPPAS
VSPQAEPVWT PPAPAPAAPP STPAAPKRRG SSGSVDETLF ALPAASEPVI 200
RSSAENMDLK EQPGNTISAG QEDFPSVLLE TAASLPSLSP LSAASFKEHE
YLGNLSTVLP TEGTLQENVS EASKEVSEKA KTLLIDRDLT EFSELEYSEM 300
GSSFSVSPKA ESAVIVANPR EEIIVKNKDE EEKLVSNNIL HNQQELPTAL
TKLVKEDEVV SSEKAKDSFN EKRVAVEAPM REEYADFKPF ERVWEVKDSK 400
EDSDMLAAGG KIESNLESKV DKKCFADSLE QTNHEKDSES SNDDTSFPST
PEGIKDRPGA YITCAPFNPA ATESIATNIF PLLGDPTSEN KTDEKKIEEK 500
KAQIVTEKNT STKTSNPFLV AAQDSETDYV TTDNLTKVTE EVVANMPEGL
TPDLVQEACE SELNEVTGTK IAYETKMDLV QTSEVMQESL YPAAQLCPSF 600
EESEATPSPV LPDIVMEAPL NSAVPSAGAS VIQPSSSPLE ASSVNYESIK
HEPENPPPYE EAMSVSLKKV SGIKEEIKEP ENINAALQET EAPYISIACD 700
LIKETKLSAE PAPDFSDYSE MAKVEQPVPD HSELVEDSSP DSEPVDLFSD
DSIPDVPQKQ DETVMLVKES LTETSFESMI EYENKEKLSA LPPEGGKPYL 800
ESFKLSLDNT KDTLLPDEVS TLSKKEKIPL QMEELSTAVY SNDDLFISKE
AQIRETETFS DSSPIEIIDE FPTLISSKTD SFSKLAREYT DLEVSHKSEI 900
ANAPDGAGSL PCTELPHDLS LKNIQPKVEE KISFSDDFSK NGSATSKVLL
LPPDVSALAT QAEIESIVKP KVLVKEAEKK LPSDTEKEDR SPSAIFSAEL 1000
SKTSVVDLLY WRDIKKTGVV FGASLFLLLS LTVFSIVSVT AYIALALLSV
TISFRIYKGV IQAIQKSDEG HPFRAYLESE VAISEELVQK YSNSALGHVN 1100
CTIKELRRLF LVDDLVDSLK FAVLMWVFTY VGALFNGLTL LILALISLFS
VPVIYERHQA QIDHYLGLAN KNVKDAMAKI QAKIPGLKRK AE          1192
```

Fig. 6B

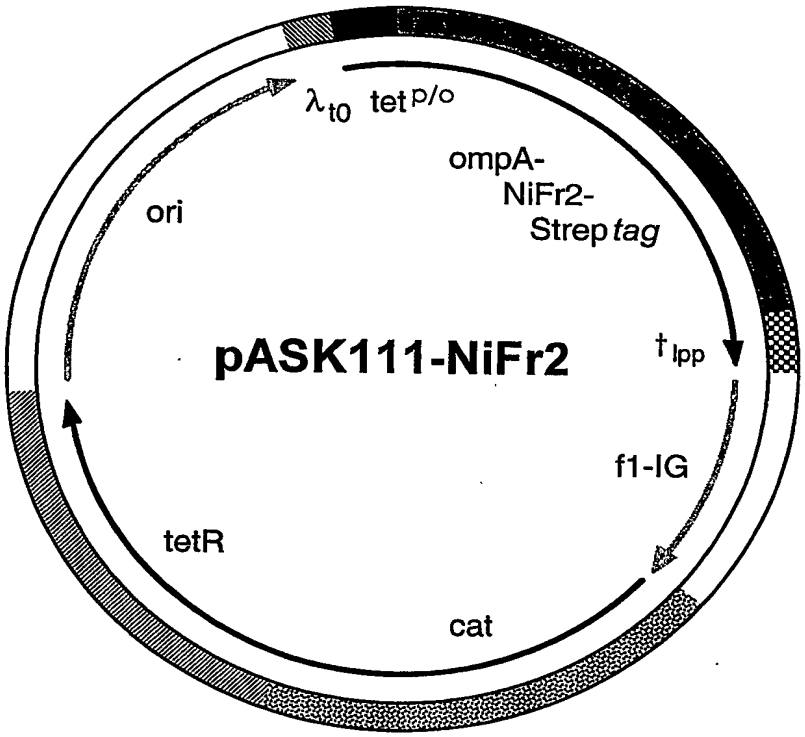
λto tetp/o
ompA-
NiFr2-
Strep tag
ori
pASK111-NiFr2
tlpp
f1-IG
tetR
cat

Fig. 7

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